

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims

1. (Currently Amended) A charging system in a packet switched network for charging packets differently dependent on which service flow the packets belong to, the charging system comprising:

a control system and a serving element associated with a packet forwarding system wherein said control system comprises:

an account function ~~adapted to manage~~ for managing an account of at least one user, and

a charging policy decision point ~~arranged to calculate~~ for calculating a different charging policy for each of a plurality of allowed services for the at least one user,

wherein said serving element comprises:

a token bucket ~~adapted to store~~ associated with the at least one user, said token bucket for storing reservations for a plurality of service flows received from the account function of ~~[[a]] the at least one user associated with the token bucket,~~ and

a charging policy enforcement point ~~arranged to perform~~ for performing charging for ~~a plurality of the allowed services~~ the plurality of service flows by reducing the stored reservation of the token bucket according to the calculated charging ~~policy policies.~~

2. (Canceled)

3. (Currently Amended) ~~The charging system according to claim 1~~
A charging system in a packet switched network for charging packets differently dependent on which service flow the packets belong to, the charging system comprising:

a control system and a serving element associated with a packet forwarding system, wherein said control system comprises:

an account function adapted to manage an account of at least one user,
and

a charging policy decision point arranged to calculate a charging policy for allowed services for the at least one user, wherein the calculated charging policy comprises at least one user rating table and a set of validity conditions,

wherein said serving element comprises:

a token bucket adapted to store reservations received from the account function of a user associated with the token bucket, and

a charging policy enforcement point arranged to perform charging for a plurality of the allowed services by reducing the stored reservation of the token bucket according to the calculated charging policy.

4. (Currently Amended) The charging system according to claim 1 wherein the charging policy enforcement point includes means for calculating the charging policy ~~is calculated~~ policies based on historical and/or current user specific usage data.

5. (Previously Presented) The charging system according to claim 3 wherein the set of validity conditions defines the lifetime of the at least one user rating table.

6. (Previously Presented) The charging system according to claim 3 wherein the charging policy enforcement point includes ~~calculated charging policy comprises~~ at least two user rating tables having different time validity conditions.

7. (Previously Presented) The charging system according to claim 1 wherein the serving element comprises means for classifying the services into different service classes based on the tariff plan of the services.

8. (Previously Presented) The charging system according to claim 7 wherein the allowed subscriber service classes are stored in a Service Class Vector.

9. (Currently Amended) ~~The charging system according to claim 1~~
A charging system in a packet switched network for charging packets differently
dependent on which service flow the packets belong to, the charging system
comprising:
a control system and a serving element associated with a packet forwarding
system, wherein said control system comprises:
an account function adapted to manage an account of at least one user,
and
a charging policy decision point arranged to calculate a charging policy for
allowed services for the at least one user,
wherein said serving element comprises:
a token bucket adapted to store reservations received from the
account function of a user associated with the token bucket,
a charging policy enforcement point arranged to perform charging
for a plurality of the allowed services by reducing the stored reservation of the token
bucket according to the calculated charging policy, and
wherein the means for classifying the services into different service
classes, said classifying means including comprises a service filter adapted to identify
the different service flows.

10. (Previously Presented) The charging system according to claim 9 wherein the means for classifying the services into different service classes further comprises Protocol Inspection Filters adapted to identify the different service flows, when the service filter is not capable of said identification.

11. (Previously Presented) The charging system according to claim 1 wherein the packet forwarding system is a Gateway GPRS Support Node in a mobile telecommunication network.

12. (Currently Amended) A control system of a charging system in a packet switched network, said control system comprising:

an account function ~~adapted to manage for managing~~ an account of at least one user ~~wherein said control system comprises; and~~

a charging policy decision point ~~arranged to calculate a charging policy for the~~ for calculating charging policies for a plurality of allowed services for the at least one user, wherein the charging policies are utilized to calculate charges for a plurality of service flows using a single token bucket.

13. (Currently Amended) ~~The control system according to claim 12~~
A control system of a charging system in a packet switched network, said control system comprising:

an account function for managing an account of at least one user; and
a charging policy decision point for calculating a charging policy for the allowed services for the at least one user;

wherein the calculated charging policy ~~further comprises~~ includes:

at least one user rating table, and
a set of validity conditions.

14. (Currently Amended) The control system according to claim 12 wherein the charging ~~policy is~~ policies are calculated based on historical and/or current user specific usage data.

15. (Previously Presented) The control system according to claim 13 wherein the set of validity conditions defines the lifetime of the at least one user rating table.

16. (Previously Presented) The control system according to claim 13 wherein the calculated charging policy comprises at least two user rating tables having different time validity conditions.

17. (Previously Presented) The control system according to claim 12 wherein the control system is implemented in a mobile telecommunication network.

18. (Currently Amended) A serving element residing in a packet forwarding system of a charging system in a packet switched network, said serving element comprising:

means for receiving reservations for at least one user,

a token bucket ~~adapted to store~~ for storing the reservations for the user associated with the token bucket,

means for receiving a charging policy for allowed services, and

a charging policy enforcement point ~~arranged to perform~~ for charging for a plurality of the allowed services by reducing the stored reservation of the token bucket according to a received calculated charging policy.

19. (Previously Presented) The serving element according to claim 18 further comprising a single token bucket per user.

20. (Currently Amended) ~~The serving element according to claim 18~~
A serving element residing in a packet forwarding system of a charging system in a packet switched network, said serving element comprising:

means for receiving reservations for at least one user,

a token bucket for storing the reservations for the user associated with the token bucket,

means for receiving a charging policy for allowed services, wherein the charging policy ~~further comprises~~ includes at least one user rating table and a set of validity conditions, and

a charging policy enforcement point for charging for a plurality of the allowed services by reducing the stored reservation of the token bucket according to a received calculated charging policy.

21. (Previously Presented) The serving element according to claim 20 wherein the charging policy is calculated based on historical and/or current user specific usage data.

22. (Previously Presented) The serving element according to claim 20 wherein the set of validity conditions defines the lifetime of the at least one user rating table.

23. (Previously Presented) The serving element according to claim 20 wherein the charging policy comprises at least two user rating tables having different time validity conditions.

24. (Previously Presented) The serving element according to claim 18 further comprising means for classifying the services into different service classes based on the tariff plan of the services.

25. (Previously Presented) The serving element according to claim 24 wherein the allowed subscriber service classes are stored in a Service Class Vector.

26. (Currently Amended) ~~The serving element according to claim 24~~
A serving element residing in a packet forwarding system of a charging system in a packet switched network, said serving element comprising:
means for receiving reservations for at least one user,
a token bucket for storing the reservations for the user associated with the token bucket,
means for classifying the services into different service classes based on the tariff plan of the services, wherein the means for classifying the services into different service classes ~~further comprises~~ includes a service filter adapted to identify the different service flows,
means for receiving a charging policy for allowed services, and

a charging policy enforcement point for charging for a plurality of the allowed services by reducing the stored reservation of the token bucket according to a received calculated charging policy.

27. (Currently Amended) The serving element according to ~~claim 24~~ claim 26 wherein the means for classifying the services into different service classes further comprises Protocol Inspection Filters adapted to identify the different service flows, when the service filter is not capable of said identification.

28. (Previously Presented) The serving element according to claim 24 wherein the packet forwarding system is a Gateway GPRS Support Node in a mobile telecommunication network.

29-30. (Canceled)